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NOTICE OF ALLOWANCE AND FEE(S) DUE

55497 7590 12/01/2009

VISTA IP LAW GROUP LLP 1885 Lundy Avenue Suite 108 SAN IOSE, CA 95131 EXAMINER
GUILL, RUSSELL L

PAPER NUMBER

ART UNIT

DATE MAILED: 12/01/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/847,642	05/01/2001	Luciano Lavagno	CA7012162001	6620

TITLE OF INVENTION: SYSTEMS AND METHODS FOR PERFORMING SOFTWARE PERFORMANCE ESTIMATIONS

 APPLN. TYPE
 SMALL ENTITY
 ISSUE FEE DUE
 PUBLICATION FEE DUE
 PREV. PAID ISSUE FEE
 TOTAL FEE(S) DUE
 DATE DUE

 nonprovisional
 NO
 \$1510
 \$0
 \$0
 \$1510
 03/01/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This f appropriate. All further c indicated unless corrected maintenance fee notification	form should be used for orrespondence including to below or directed oth ons.	or tran ig the I ierwise	smitting the ISSU Patent, advance or in Block 1, by (a					hould be completed where correspondence address as arate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				p	Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.			
55497 7590 1201/2009 VISTA IP LAW GROUP LLP 1885 Lundy Avenue Suite 108				1	Terrificate of Mailing or Transmission I hereby certify that this Fee(s) Transmits is being deposited with the United States Posts Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE: address above, or being facsimile transmitted to the USPTO (371) 273-2885, on the date indicated between the Computer Compute			
SAN JOSE, CA 9	5131			Γ				(Depositor's name)
								(Signature)
								(Date)
APPLICATION NO.	FILING DATE			FIRST NAMED INVENT	OR	ATT	ORNEY DOCKET NO.	CONFIRMATION NO.
09/847,642	05/01/2001			Luciano Lavagno		CA7012162001		6620
TITLE OF INVENTION:								
APPLN. TYPE	SMALL ENTITY	ISS	SUE FEE DUE	PUBLICATION FEE DU		SSUE FEE	TOTAL FEE(S) DUE	
nonprovisional	NO		\$1510	\$0	\$0		\$1510	03/01/2010
EXAMI	NER		ART UNIT	CLASS-SUBCLASS				
GUILL, RU	SSELL L		2123	703-027000				
PTO/SB/47; Rev 03-02 Number is required. 3. ASSIGNEE NAME AN	ndence address (or Cha 122) attached. atton (or "Fee Address" or more recent) attach ID RESIDENCE DATA ss an assignee is identi in 37 CFR 3.11. Comp	nge of 6 " Indica ed. Use	Correspondence ation form of a Customer		to 3 registered p atively, agle firm (having r agent) and the torneys or agents be printed. type) patent. If an as an assignment.	as a mem names of . If no na	ber a 2up to me is 3	locument has been filed for
4a. The following fee(s) ar	re submitted:		48	o. Payment of Fee(s): (P	lease first reappl	y any pre	eviously paid issue fee	oup entity Government
				lit card. Form PTO-2038 is attached. ereby authorized to charge the required fee(s), any deficiency, or credit any				
				overpayment, to De	posit Account Nu	mber	(enclose a	n extra copy of this form).
 Change in Entity Statu a. Applicant claims 				☐ b. Applicant is no l	onger claiming SI	MALL EN	TITY status. See 37 C	ER 1.27(e)(2)
								he assignee or other party in
Authorized Signature _					Date			
Typed or printed name				Registration No				
This collection of informat an application. Confidenti- submitting the completed this form and/or suggestio Box 1450, Alexandria, Vir Alexandria, Virginia 2231	tion is required by 37 C ality is governed by 35 application form to the ns for reducing this bur rginia 22313-1450. DC 3-1450.	FR 1.3 U.S.C. USPTO rden, sh O NOT	11. The informatic 122 and 37 CFR O. Time will vary sould be sent to the SEND FEES OR (on is required to obtain of 1.14. This collection is depending upon the in the Chief Information Off COMPLETED FORMS	or retain a benefit estimated to take dividual case. An icer, U.S. Patent TO THIS ADDR	by the put 12 minute y comment and Trade ESS, SEN	blic which is to file (an es to complete, including ts on the amount of ti mark Office, U.S. Dep JD TO: Commissioner	d by the USPTO to process) ng gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450,

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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010. OMB 0651-0033



UNITED STATES PATENT AND TRADEMARK OFFICE

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VISTA IP LAW GROUP LLP			GUILL, RUSSELL L		
1885 Lundy Avenue			ART UNIT	PAPER NUMBER	
Suite 108 SAN JOSE, CA 95131			2123 DATE MAILED: 12/01/2009		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 725 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 725 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)	
09/847,642	LAVAGNO ET AL.	
Examiner	Art Unit	
Russ Guill	2123	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address-All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included
herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS
NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative
of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

- 1. This communication is responsive to an amendment filed September 1, 2009.
- The allowed claim(s) is/are 1,2,4-22,33,34 and 36-64.
- Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some* c) None of the:
 - 1.

 Certified copies of the priority documents have been received.
 - Certified copies of the priority documents have been received in Application No.
 - Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: ____

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) \square including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - The reto or 2) to Paper No./Mail Date ____.

 The reto or 2) to Paper No./Mail Date ____.

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 The reto or 2) to Paper No./Mail Date ____.

 The reto or 2) to Paper No./Mail Date ____.
 - Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

 DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. Notice of References Cited (PTO-892)
- Notice of Draftnerson's Patent Drawing Review (PTO-943).
- Information Disclosure Statements (PTO/SB/08),
 Paper No./Mail Date
- 5. Notice of Informal Patent Application
- € ☐ Interview Summery (PTO-413), Paper No./Mail Date
- 7. Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- 9. 🔲 Other ____

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EXAMINERS AMENDMENT

An Examiner's amendment to the record appears below. Should the changes
and/or additions be unacceptable to the applicant, an amendment may be filed as
provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be
submitted no later than the payment of the issue fee.

- 2. Authorization for this amendment was given in telephone interviews with Erich Tzou on November 5, 2009 and November 6, 2009.
 - a. The claims have been amended as follows:
 - Claim 33, line 3, the words, "executed by said processor" have been replaced with --executed by a processor--.
 - Claim 41, line 3, the words, "said processor, causes" have been replaced with --a processor, causes--.
 - iii. Claim 55, line 17, the words, "software into" have been replaced with -- software module into --.
 - Claim 61, line 19, the words, "the means for annotating" have been replaced with --annotating--.
 - v. Claim 62, line 6, the word, "generating" has been replaced with -performing an act of generating--.
 - vi. Claim 62, lines 13 14, the words, "when the means for generating" have been replaced with —when the act of generating—.
 - vii. Claim 64, line 3, the words, "said processor, causes" have been replaced with --a processor, causes--.

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Allowable Subject Matter

3. Claims 1 – 2, 4 – 22, 33 – 34 and 36 – 64 are allowable over the prior art of record.

 Following is an Examiner's statement of reasons for indicating allowable subject matter.

- 5. The allowability of the claims resides, at least in part, that the closest prior art of record Bradford (U.S. Patent Number 5857093), Passerone ("Fast hardware/software co-simulation for virtual prototyping and trade-off analysis"), Hellestrand (U.S. Patent Number 6230114), Zivojnovic ("Compiled HW/SW Co-simulation"), either alone or in combination with the prior art of record, do not teach or suggest a method for performing performance analysis for target machine, specifically including,
 - a. Regarding claim 1, "wherein the act of annotating the software simulation model is performed during a time of the act of generating the software simulation model", in combination with the remaining features and elements of the claimed invention.
 - b. Regarding claim 9, "wherein the act of annotating the software simulation model is performed during a time of the act of generating the software simulation model", in combination with the remaining features and elements of the claimed invention,
 - c. Regarding claim 33, "wherein the act of annotating the software simulation model is performed during a time of the act of generating the software simulation model", in combination with the remaining features and elements of the claimed invention.
 - d. Regarding claim 41, "wherein the act of annotating the software simulation model is performed during a time of the act of generating the software

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simulation model", in combination with the remaining features and elements of the claimed invention.

- e. Regarding claim 55, "wherein the act of associating is performed during a time of the act of parsing the assembly language software module into a data structure", in combination with the remaining features and elements of the claimed invention.
- f. Regarding claim 61, "wherein annotating the software simulation model is invoked during a time when the means for generating the software simulation model executes", in combination with the remaining features and elements of the claimed invention.
- g. Regarding claim 62, "wherein the means for annotating the software simulation model is invoked during a time when the act of generating the software simulation model executes", in combination with the remaining features and elements of the claimed invention,
- h. Regarding claim 63, "wherein the means for associating is invoked during a time when the means for parsing the assembly language software executes", in combination with the remaining features and elements of the claimed invention,
- Regarding claim 64, "wherein the act of associating is performed during a time of the act of parsing the assembly language software into a data structure", in combination with the remaining features and elements of the claimed invention.
- 6. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Conclusion

 Any inquiry concerning this communication or earlier communications from the examiner should be directed to Russ Guill whose telephone number is 571-272-7955.
 The examiner can normally be reached on Monday – Friday 9:30 AM – 6:00 PM.

- 8. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul Rodriguez can be reached on 571-272-3753. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Any inquiry of a general nature or relating to the status of this application should be directed to the TC2100 Group Receptionist: 571-272-2100.
- 9. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Russ Guill Examiner Art Unit 2123

RG

/Paul L Rodriguez/

Supervisory Patent Examiner, Art Unit 2123